

Abstract of the Disclosure

An electromagnetic transducer motor structure such as for an audio speaker. The motor structure has a non-magnetically conductive heatsink in the middle of its magnetic circuit members. A set of magnetically conductive members extend through the heatsink to conduct magnetic flux across the thickness of the heatsink, completing the magnetic circuit. The heatsink includes spokes or webs which extend between these members, to carry heat away from the voice coil area to a heatsink body outside the motor structure. The heatsink may optionally include an inner ring to sink eddy currents generated by the voice coil, reducing eddy current heating of the less thermally conductive and more electrically resistive plates and magnets of the motor structure. The heatsink body may optionally form the basket of the speaker.